





Claim 30 (Previously Presented): The method as recited in claim 25 wherein the third time source includes signals of a satellite system, the third time source being more accurate than any other of the plurality of first time sources.

Claim 31 (Previously Presented): The method as recited in claim 30 wherein the satellite system includes a global positioning system.

Claim 32 (Previously Presented): The method as recited in claim 30 wherein the first measuring computer includes a local global positioning system receiver integrated therein and configured to receive the signals of the satellite system.

Claim 33 (Previously Presented): The method as recited in claim 25 wherein each of the measuring computers includes a respective local clock continuously synchronized to a respective local GPS receiver via a network time protocol so as to provide a respective internally synchronized local clock.

Claim 34 (Previously Presented): The method as recited in claim 33 wherein a fourth of the plurality of first time sources includes signals of a satellite system, and the third time source includes the internally synchronized local clock of the first measuring computer, the third time source having a next highest accuracy relative to the fourth time source.

Claim 35 (Previously Presented): The method as recited in claim 25 wherein the first measuring computer includes a first local global positioning system receiver and first local clock, and further comprising, when no signal of a global positioning system is present at the first local global positioning system receiver, synchronizing the first local clock via a network time protocol to a second local clock of at least one predetermined second measuring computer of the plurality of measuring computers after a predetermined time interval so as to provide an external synchronization.

Claim 36 (Previously Presented): The method as recited in claim 35 wherein the time interval is adjustable.

Claim 37 (Previously Presented): The method as recited in claim 35 wherein the second local clock has a second highest accuracy relative to an accuracy of other time sources of the plurality of first time sources.

Claim 38 (Currently Amended): The method as recited in claim 25 wherein the first measuring computer includes a first local clock and further comprising synchronizing the first local clock via a network time protocol to a second local clock of at least one predetermined second measuring computer of the plurality of measuring computers after a predetermined time interval so as to externally synchronize the first local clock, the plurality of first time source sources including the externally synchronized first local clock, the externally synchronized first local clock having a third highest accuracy relative to other time sources of the plurality of first time sources.

Claim 39 (Previously Presented): The method as recited in claim 25 further comprising synchronizing a first local clock of the first measuring computer via a network time protocol and storing a type and an accuracy of the synchronizing.

Claim 40 (Previously Presented): The method as recited in claim 25 wherein the first measuring computer includes a first local clock, the first time source including the first local clock, the first local clock being unsynchronized, the unsynchronized first local clock having a fourth highest accuracy relative to other time sources of the plurality of first time sources.

**Claim 41 (Canceled)**

Claim 42 (Currently Amended): The method as recited in claim ~~41~~ 25 wherein the measurement packets include user datagram protocol packets.

Claim 43 (Currently Amended): The method as recited in claim 41 25 wherein the first measuring computer acts as a sender and the second measuring computer acts as a receiver.

Claim 44 (Currently Amended): The method as recited in claim 41 25 further comprising, using the first measuring computer:

recording the first time stamp, the first time stamp being a send time stamp of an outgoing measurement packet;

~~generating first data associated with the send time stamp; and~~

transmitting the first data to the second measuring computer with the an outgoing measurement packet.

Claim 45 (Currently Amended): The method as recited in claim 41 25 further comprising transmitting a sequence number to the second measuring computer with the an outgoing measurement packet.

Claim 46 (Previously Presented): The method as recited in claim 44 wherein the first data relates to information about at least one of the third time source, a type of synchronization, an accuracy of the synchronization, and an accuracy of the send time stamp.

Claim 47 (Currently Amended): The method as recited in claim 44 further comprising generating, with the second measuring computer, a the receive time stamp, the receive time stamp being a time stamp of an incoming measurement packet ~~and second data associated with the receive time stamp.~~

Claim 48 (Previously Presented): The method as recited in claim 47 wherein the data associated with the receive time stamp relates to information about at least one of the third time source, a type of synchronization, an accuracy of the synchronization, and an accuracy of the receive time stamp.

Claim 49 (Canceled)

Claim 50 (Canceled)

Claim 51 (Currently Amended): The method as recited in claim 4125 further comprising:

~~generating first data associated with the first time stamp, the first time stamp being a send time stamp;~~

~~—generating second data associated with a receive time stamp; and~~  
determining a measurement result from the first and second data.

Claim 52 (Currently Amended): The method as recited in claim 25 further comprising providing a plurality of second time sources associated with a second measuring computer of the plurality of measuring computers, each of the second time sources having a different respective accuracy and configured to provide a second time stamp[[:]].

Claim 53 (Currently Amended): A time synchronization device comprising:

a first measuring computer;

a second measuring computer cooperating with the first measuring computer over a telecommunications network; and

the first measuring computer configured at least to generate first data associated with a send time stamp and to send the first data to the second measuring computer over the telecommunications network.;

the second measuring computer configured at least to receive a transmission over the telecommunications network, and to generate second data associated with a receive time stamp;

each of the first measuring computer and the second measuring computer further configured to stop an evaluation of the first and second data when a respective quality of the first data and the second data falls below a predetermined level; and

a plurality of first time sources associated with a first measuring computer, each of the plurality of first time sources having a different respective accuracy and configured to provide a first time stamp;

wherein the first computer is further configured to select a third time source of the plurality of first time sources as a function of an accuracy of the third time source.

Claim 54 (Previously Presented): The time synchronization device as recited in claim 53 further comprising a plurality of second time sources associated with the second measuring computer, each of the second time sources having a different respective accuracy and configured to provide a second time stamp.

Claim 55 (Previously Presented): The time synchronization device as recited in claim 53 wherein the telecommunications network includes at least one of an internet and an intranet.

Claim 56 (Previously Presented): The time synchronization device as recited in claim 53 wherein the first time stamp is usable for performing a measurement method.



Claim 58 (Previously Presented): The time synchronization device as recited in claim 53 wherein:

the first measuring computer is configured to initially attempt to select the fourth time source before selecting the third time source, and then to automatically select the third time source when the fourth time source has failed.

Claim 60 (Currently Amended): The time synchronization device as recited in claim 59 wherein the satellite system includes a global positioning system.